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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,928	05/31/2005	Kazuhiro Yamada	MATS:060	2470
	7590 02/18/2010 S & McDOWELL LLF		EXAMINER	
20609 Gordon I	Park Square, Suite 150		MA, CALVIN	
Ashburn, VA 20147			ART UNIT	PAPER NUMBER
			2629	
			NOTIFICATION DATE	DELIVERY MODE
			02/18/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ptomail@rkmlegalgroup.com

	Application No.	Applicant(s)				
Office Action Occurrence	10/536,928	YAMADA, KAZUHIRO				
Office Action Summary	Examiner	Art Unit				
	CALVIN C. MA	2629				
The MAILING DATE of this communication appo Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>09 No</u>	ovember 2009.					
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3) Since this application is in condition for allowan	, _					
closed in accordance with the practice under Ex	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,5,7,9,10,15 and 16</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,5,7,9,10,15 and 16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
· · · · · · · · · · · · · · · · · · ·	· <u> </u>					
Application Papers	·					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims1-2, 5, 7, 9-10, and 15-16 rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (US Pub: 2003/0052841) in view of Weitbruch et al. (US Patent: 6,473,464).

As to claims 1 and 9, Tanaka teaches a method as well as a device (i.e. a plasma display system) (see Fig. 1, [121]), displaying an image in which a single field is made of a plurality of subfields weighted with brightness (i.e. the plasma display having variety of subfield, SF1, SF2, ...) (see Table 2, Fig. 6) and a plurality of pieces of emission pattern information (i.e. the pattern look up table LUT), which show an emitted state with "1" and a non-emitted state with "0," of a pixel for each subfield, are used for displaying one gradation level (i.e. the subfield coding circuit interact with LUT to select the correct pattern to display) (see Fig. 6, [124-131]), wherein an average value of gradation levels shown by each of the plurality of pieces of emission pattern information, is equal to one of the gradation levels; and

an average emission rate (APL), which is the plurality of pieces of emission

pattern information averaged by each subfield, of any subfield with brightness weight smaller than maximum brightness weight of a subfield (i.e. since the total brightness of the plasma display is a result of all of the subfield in the pixel performing together, the APL is a range of possible value in a continuum of actual display output factors which is tracked by the display system to insure the correct gradation conversation yield the correct subfield setting) (see Fig. 6, [126-129]),

However Tanaka does not explicitly teach having in which an average emission rate thereof is not zero, is equal to or greater than 0.75, Weitbruch teaches in which an average emission rate thereof is not zero, is equal to or greater than 0.75 (i.e. the picture correction algorithm of Weitbruch shows that the video frame in figure 1 where there is a continuum of brightness rate which is adapted with pixel shift in this way the average emission rate clearly is greater than 0.75 in some pixel area of the pictures) (see Fig. 1, 2 and 9, Col 5, Lines 30-60).

Therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to have used the dynamic pixel shifting technique of Weitbruch in the PDP driving system of Tanaka in order to create a motion adjustment compensation for the video picture to provide better display performance (see Weitbruch Col. 2, Lines 10-30).

As to claims 2 and 10, Tanaka teaches wherein a given level of gradation is displayed by timewise changing each of the plurality of pieces of emission pattern

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information, for one pixel (i.e. since the display of image on a plasma display with subfields is a composition of time based change in a given pixel the level of gradation is naturally a result of timewise changing of the pattern of fields in each pixel which is stored in LUT) (see Fig. 6).

As to claims 5 and 7 Weitbruch teaches wherein a given level of gradation is displayed by spatially arranging each of the plurality of pieces of emission pattern information, for a plurality of adjacent pixels (i.e. the pixel adjustment based on pixel shifting presupposes the emissions pattern being spatially arranged by given level of gradation to create the necessary image improvement) (see Fig. 7-9, Col 5, Lines 30-60).

As to claims 15-16 Tanaka teaches wherein a given level of gradation is displayed by spatially arranging each of the plurality of pieces of emission pattern information, for a plurality of adjacent pixels(i.e. the APL is translated into have a '1' and '0' patterned displayed on the entire plasma display so that the overall gradation is outputted and thus the pattern information is also encapsulated in the LUT which is outputted to the actual display itself) (see Fig. 5, [132-142]).

Response to Arguments

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3. Applicant's arguments filed 11/9/2009 have been fully considered but they are not persuasive.

The applicant argues in page 2 of the response that the prior art Weitbruch does not teach an average emission rate to be equal to 0.75 or greater, the examiner disagrees. This is because Weitbruch is used only to show that the arbitrary nature of the display image in a plasma video display system which when view together with the system of Tanaka which teaches that there exist four APL which are (0..3) and clearly shown in table 1. In Weitbruch drawings of figures 4 and 7, the plasma display is shown to be able to display a dynamic video image where the image itself can be of any type, such video image is than processed by the algorithm, this means that the average emission rate is of variable setting where in the continuous operation when the plasma display displays bright image such as white the average would approach the value of 1 which is greater than 0.75. In this way Weitbruch is cited to show that with an implementation such as a Television set, the value of the average emission rate would be at least greater than 0.75 during the range of continues systems operation for the APL3 setting of Tanaka since such emission rate can vary according to the image displayed which the table of Tanaka clearly shows that for a total white display the sustain cycle is 255 for APL3 where the luminance level is 255.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Calvin Ma whose telephone number is (571)270-1713. The examiner can normally be reached on Monday - Friday 7:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chanh Nguyen can be reached on (571)272-7772. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Calvin Ma

January 29, 2010

/Chanh Nguyen/ Supervisory Patent Examiner, Art Unit 2629

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